

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (cancelled)
2. (currently amended) An isolated nucleic acid encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:111, with the exception that the polypeptide contains an amino acid change which results from a single nucleotide polymorphism of guanine to adenine at position 21 set forth in SEQ ID NO.: 5969.
- 3-4. (cancelled)
5. (currently amended) An isolated nucleic acid comprising a nucleotide sequence of SEQ ID NO.:19, with the exception that the nucleic acid contains a single nucleotide polymorphism of guanine to adenine at position 21 of SEQ ID NO.: 5969.
- 6-10. (cancelled)
11. (previously presented)An isolated nucleic acid comprising a nucleotide sequence which is complementary to the nucleotide sequence of the nucleic acid according to claim 5.
- 12-14. (cancelled)
15. (previously presented)A vector comprising the nucleic acid according to claim 2.
16. (previously presented)A vector comprising the nucleic acid according to claim 5.
17. (cancelled)

18. (currently amended) An isolated host cell comprising the vector according to claim 15, wherein the host cell is selected from the group consisting of a bacterial cell, a yeast cell, an insect cell, a mammalian cell, and a plant cellcells.

19. (currently amended) An isolated host cell comprising the vector according to claim 16, wherein the host cell is selected from the group consisting of a bacterial cell, a yeast cell, an insect cell, a mammalian cell, and a plant cellcells.

20-30. (cancelled)

31. (currently amended) A ~~pharmaceutical~~ composition comprising the nucleic acid according to claim 11, and a physiologically acceptable carrier, excipient, or diluent.

32-33. (cancelled)

34. (currently amended) A ~~pharmaceutical~~ composition comprising the vector according to claim 15, and a physiologically acceptable carrier, excipient, or diluent.

35. (currently amended) A ~~pharmaceutical~~ composition comprising the vector according to claim 16, and a physiologically acceptable carrier, excipient, or diluent.

36-55. (cancelled)

56. (previously presented) A kit for detecting a 12q23-qter nucleotide sequence comprising:

- a) the isolated nucleic acid according to claim 2; and
- b) at least one component to detect hybridization of the isolated nucleic acid to a 12q23-qter nucleotide sequence.

57. (previously presented) A kit for detecting a 12q23-qter nucleotide sequence comprising:

- a) the isolated nucleic acid according to claim 5; and

b) at least one component to detect hybridization of the isolated nucleic acid to a 12q23-qter nucleotide sequence.

58. (cancelled)

59. (previously presented) A kit for detecting a 12q23-qter nucleotide sequence comprising:

a) the isolated nucleic acid according to claim 11; and

b) at least one component to detect hybridization of the isolated nucleic acid to a 12q23-qter nucleotide sequence.

60-125. (cancelled)